

SUN YAT-SEN UNIVERSITY

ZHONGSHAN SCHOOL OF MEDICINE

APPROVAL DOCUMENT IN ETHICS COMMITTEE OF

ZSSOM LABORATORY ANIMAL CARE

Ethics Committee of ZSSOM on Laboratory Animal Care (No.2016-134)

Project name	Tracing and modifying the homing capability of bone marrow derived mesenchymal stem cells		
The content and significance in research	Separate, identify and engineer bone marrow derived mesenchymal stem cell (MSC) in order to empower the homing ability of MSC to local inflammatory sites of inflammatory bowel disease (IBD) and mark MSC with fluorescent protein for tracing.		
Principle investigator	Xiang Peng		
Committee members in ethics committee of ZSSOM on laboratory Animal Care	Name	Title	Work unit
	Cai Weibin	Professor	Sun Yat -Sen University Zhongshan School of Medicine
	Huang Xi	Professor	Sun Yat -Sen University Zhongshan School of Medicine
	Wang Yuanzhan	Research Fellow	Southern Medical university Animal laboratory center
	Tan Hongmei	Professor	Sun Yat -Sen University Zhongshan School of Medicine
	Huang Chaofeng	Associate Professor	Sun Yat -Sen University Zhongshan School of Medicine
Voting result: 1. Approve <input checked="" type="checkbox"/> 3. Approve after necessary revise () 2. Disapprove () 4. Stop or suspend the approved experiments ()			

Approval opinion of Ethics Committee of ZSSOM on Laboratory Animal Care:

To investigate immunomodulatory capability of MSCs in IBD model, we have reduced the number of animals used in our design. We will establish IBD model of BALB/c mice which will be divided into 5 experiments, including the human MSCs^{EF-1 α -CXCR4-IRES-eGFP} group, the human MSCs^{EF-1 α -CXCR4-IRES-Luciferase-dTomato-FTH} group, MSC^{EF-1 α -Luciferase-IRES - eGFP} group, saline group ,alcohol control group and normal control group. Colon tissue section, cytokine will be analyzed after measurement. All the animals will be narcotized by 4% chloral hydrate (150ug/ml) and sacrificed by cervical dislocation. The mice body will receive sanity treatment. To be well applied the "3R" principle, the experimental technical route has been delicately designed and selected in order to reduce discomfort and suffer of experimental animals which will promise the repeatability of animal experiment.

Signed by the chairman of committee

Date: 10th August, 2016

